

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 1820

TITLE: GIS SPATIAL ANALYST I

GRADE: S-23

DEFINITION:

Under general supervision, conducts spatial analysis using the GIS database and various database platforms; interfaces with agencies to determine GIS requirements and provides technical support and training. Responds to requests for specific information by using existing layers of the Geographic Information System; analyzes results and produces reports, maps and supporting documentation; and performs related work as required.

DISTINGUISHING CHARACTERISTICS:

This is journey or full performance level GIS analysis. The GIS Spatial Analyst I uses applications developed by GIS Spatial Analysts II, III, and IV all of which have application design and programming experience. The GIS Spatial Analyst I produces maps for specific agency users, maintains and develops enhancements to GIS data delegated to a specific agency and responds to management or Board member or citizen requests.

ILLUSTRATIVE DUTIES:

Evaluates GIS software packages;
Assists users in evaluating and recommending GIS software for specialized applications;
Designs and performs acceptance tests and evaluation criteria for new software products;
Evaluates new software and makes recommendations to user agencies;
Designs and manages application implementation plans;
Assists with data maintenance and development;
Maintains designated GIS data layers;
Recommends and develops database enhancements for GIS data layers;
Creates or oversees database updates;
Recommends database schema changes;
Works with GIS data conversion staff to design, implement, and maintain County inter-agency data flow and to synchronize database elements;
Works with users to help define their information needs and obtain the necessary maps;
Can produce maps for users and can help users produce quality cartographic products;
Assists GIS developers (GIS Spatial Analysts II, III, & IV) in designing and testing GIS applications;
Provides technical support to County GIS users;
Provides solutions to software and hardware problems;
Serves as liaison between users and vendor technical support staff;
Provides some training to County GIS users;
Teaches some application specific classes;
Assists in GIS spatial analysis;
Can conduct some independent spatial analyses;
Attends meetings and conferences related to GIS.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

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Knowledge of principles, practices, and methods related to GIS;
Knowledge of functional requirements for GIS hardware and software;
Knowledge of GIS applications such as ArcView;
Knowledge of languages such as Visual Basic and C++;
Knowledge of techniques for spatial analysis, geocoding, etc;
Ability to analyze user needs for GIS applications;
Ability to document system modifications and enhancements;
Ability to translate technical terminology into terms understandable to management and employees;
Ability to establish and maintain effective business relationships.

EMPLOYMENT STANDARDS:

Any combination of education, experience and training equivalent to the following:
Bachelor's degree in computer science or related field, PLUS
Course work in ArcView GIS or similar GIS software.

CERTIFICATES AND LICENSES REQUIRED:

None.

ESTABLISHED: May 24, 1999